

FY04 DOE Synchrotron Radiation Facility Usage

Elane Streets

General User Program Administrator, Advanced Photon Source

Joint Meeting of User Facility Administrators & User Executive Committee Chairs

Oak Ridge National Laboratory

March 8-9, 2005

Argonne National Laboratory



*A U.S. Department of Energy
Office of Science Laboratory
Operated by The University of Chicago*



Data Elements

Facility	Last Name	First Name	Middle Initial	E-mail	Citizenship	Date of Birth	Institution	State	Zip Code	Country
ALS	Y	Y	Y	Y	Y*	Y	Y	Y	Y	Y
APS	Y	Y	N	N	Y	Y	Y	Y	Y	Y
NSLS	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
SSRL	Y	Y	Y	N	Y	Y	Y	Y	N	Y
* 347 LBNL employees' citizenship unknown and assumed to be US										
N	= No data supplied by SR facility									

- No data set was complete.
- Name information was used only to identify unique users.
- The 4 data sets were reduced to a single set of unique users.
- Data were pooled to create as complete a record as possible for a unique user.

Profile of Users at DOE SR Facilities

Facility	# of Unique Users at this Facility	Users Not Using Any Other Facility	# of non-US Citizens	% of non-US Citizens	# of Sensitive Country Citizens	% of Unique Sensitive Country Citizens	% of non-US Sensitive Country Citizens
ALS	1898	1402	752	40%	217	11%	29%
APS	2773	2085	1434	52%	558	20%	39%
NSLS	2299	1668	1162	51%	486	21%	42%
SSRL	740	365	353	48%	97	13%	27%
Total	7710	5520	3701	48%	1358	18%	37%
Unique Users, All Facilities	6511	NA	3320	51%	1039	16%	31%

User-Facility Matrix

Facility	ALS	APS	NSLS	SSRL
ALS	1898			
APS	232	2773		
NSLS	196	484	2299	
SSRL	269	165	96	740

Users at SR Facilities: All Users

ALS	APS	NSLS	SSRL	
25	25	25	25	→ 25 users visited all 4 SR facilities
66	66	66		} 163 users visited 3 of the 4 SR facilities
	26	26	26	
20		20	20	
51	51		51	
	367	367		} 803 users visited 2 of the 4 SR facilities
85		85		
		25	25	
90	90			
	63		63	
173			173	} Unique visits to each SR facility
1402				
	2085			
		1668		
			365	

Users at SR Facilities: non-US Citizens*

ALS	APS	NSLS	SSRL	
14	14	14	14	→ 14 users visited all 4 SR facilities
38	38	38		82 users visited 3 of the 4 SR facilities
	15	15	15	
6		6	6	
23	23		23	
	213	213		398 users visited 2 of the 4 SR facilities
32		32		
		10	10	
47	47			
	26		26	
70			70	Unique visits to each SR facility
531				
	961			
		799		
			185	

*Note 347 LBNL employees' citizenship unknown and assumed to be US

Users at SR Facilities: Citizens from Sensitive Countries*

ALS	APS	NSLS	SSRL	
6	6	6	6	→ 6 users visited all 4 SR facilities
27	27	27		} 52 users visited 3 of the 4 SR facilities
	11	11	11	
4		4	4	
10	10		10	
	108	108		} 172 users visited 2 of the 4 SR facilities
14		14		
		5	5	
21	21			
	8		8	
16			16	} Unique visits to each SR facility
122				
	367			
		279		
			41	

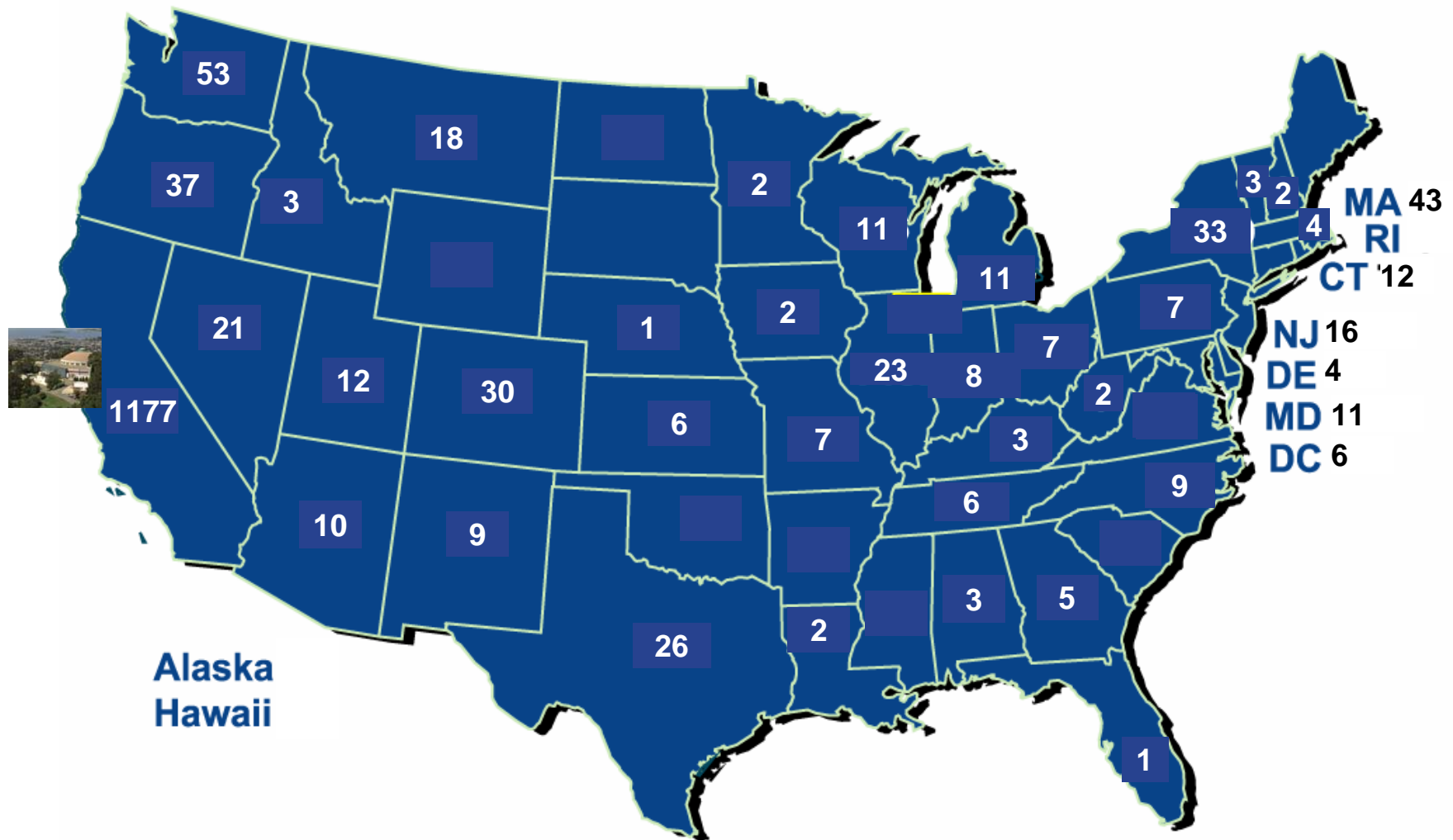
*Note 347 LBNL employees' citizenship unknown and assumed to be US

User Institution Countries

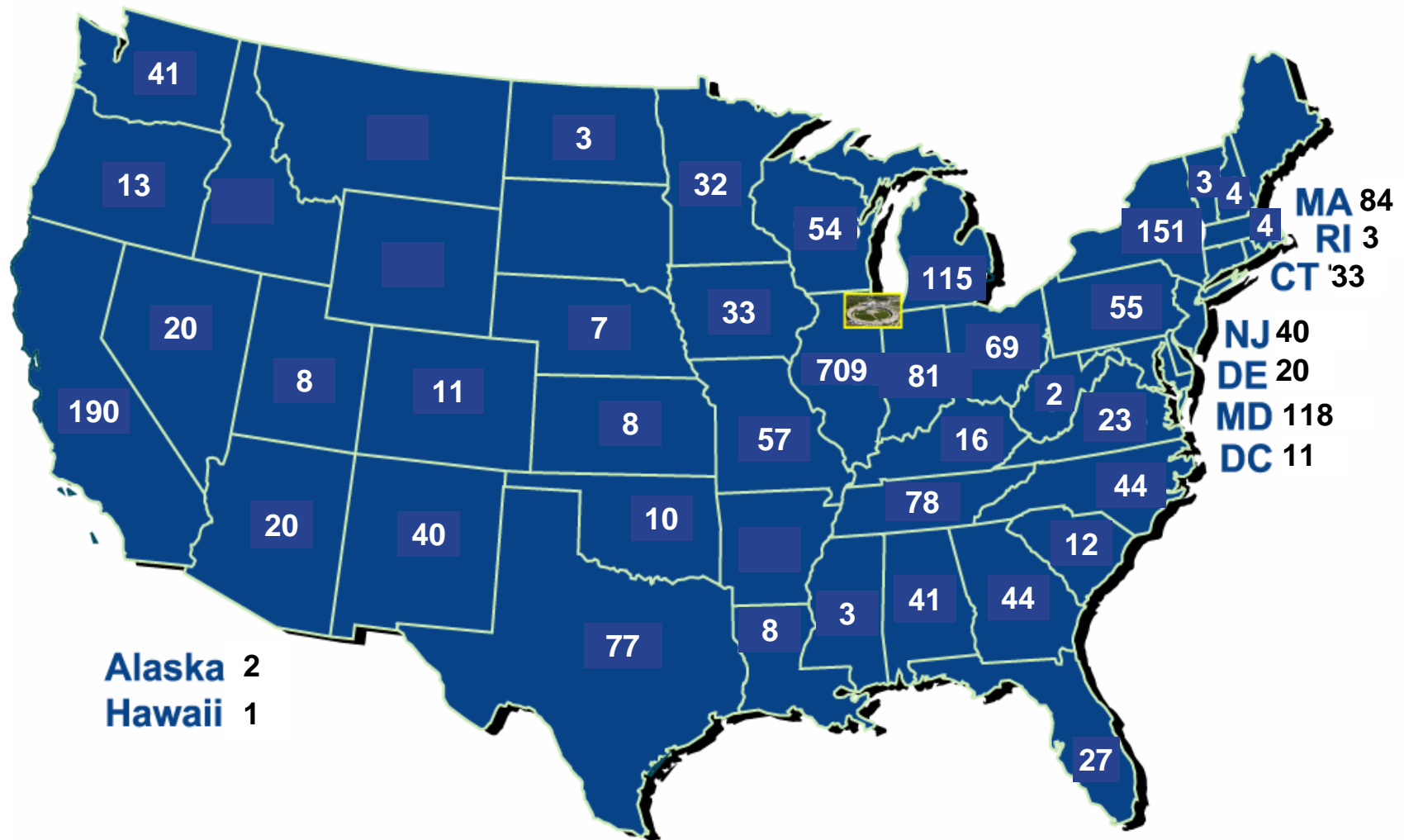
Country	Count	% of Total	Country	Count	% of Total
Argentina	1	0.02%	Korea, Republic Of	15	0.23%
Australia	104	1.60%	Mexico	14	0.22%
Austria	1	0.02%	Netherlands	12	0.18%
Belgium	11	0.17%	New Zealand	5	0.08%
Brazil	4	0.06%	Northern Ireland	1	0.02%
Canada	236	3.62%	Norway	3	0.05%
China, Peoples Republic Of	4	0.06%	Poland	2	0.03%
Czechoslovakia (Obsolete)	1	0.02%	Puerto Rico	1	0.02%
Denmark	18	0.28%	Russian Federation	1	0.02%
Egypt	2	0.03%	Scotland	2	0.03%
Finland	3	0.05%	Singapore	7	0.11%
France	60	0.92%	South Africa	2	0.03%
Georgia	2	0.03%	Spain	7	0.11%
Germany	120	1.84%	Sweden	38	0.58%
Hungary	2	0.03%	Switzerland	36	0.55%
India	1	0.02%	Taiwan, Republic Of China	12	0.18%
Ireland	3	0.05%	Thailand	2	0.03%
Israel	25	0.38%	Tunisia	1	0.02%
Italy	27	0.41%	Turkey	1	0.02%
Japan	48	0.74%	United Kingdom	68	1.04%
			United States	5608	86.13%



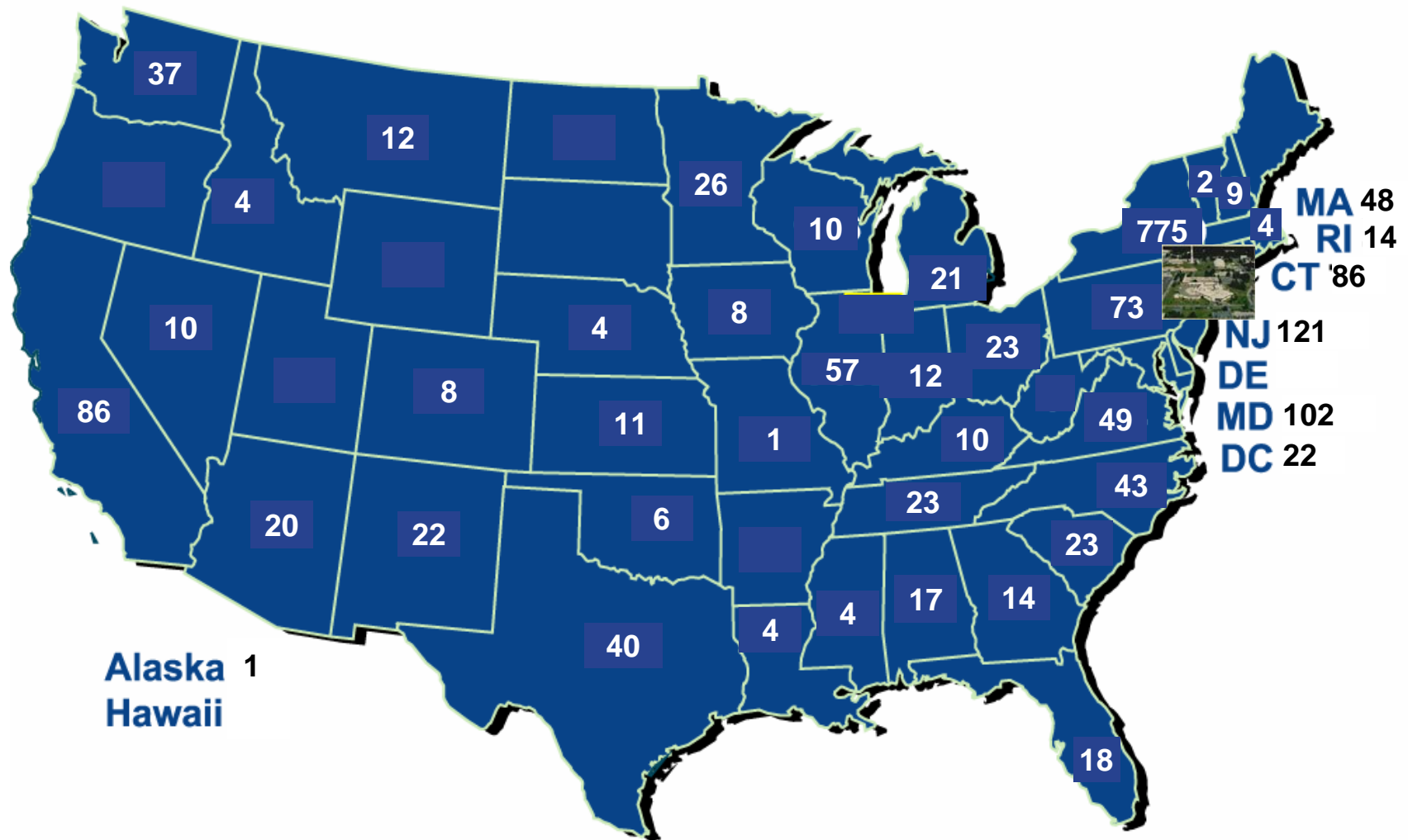
U. S. ALS Unique Users, by State



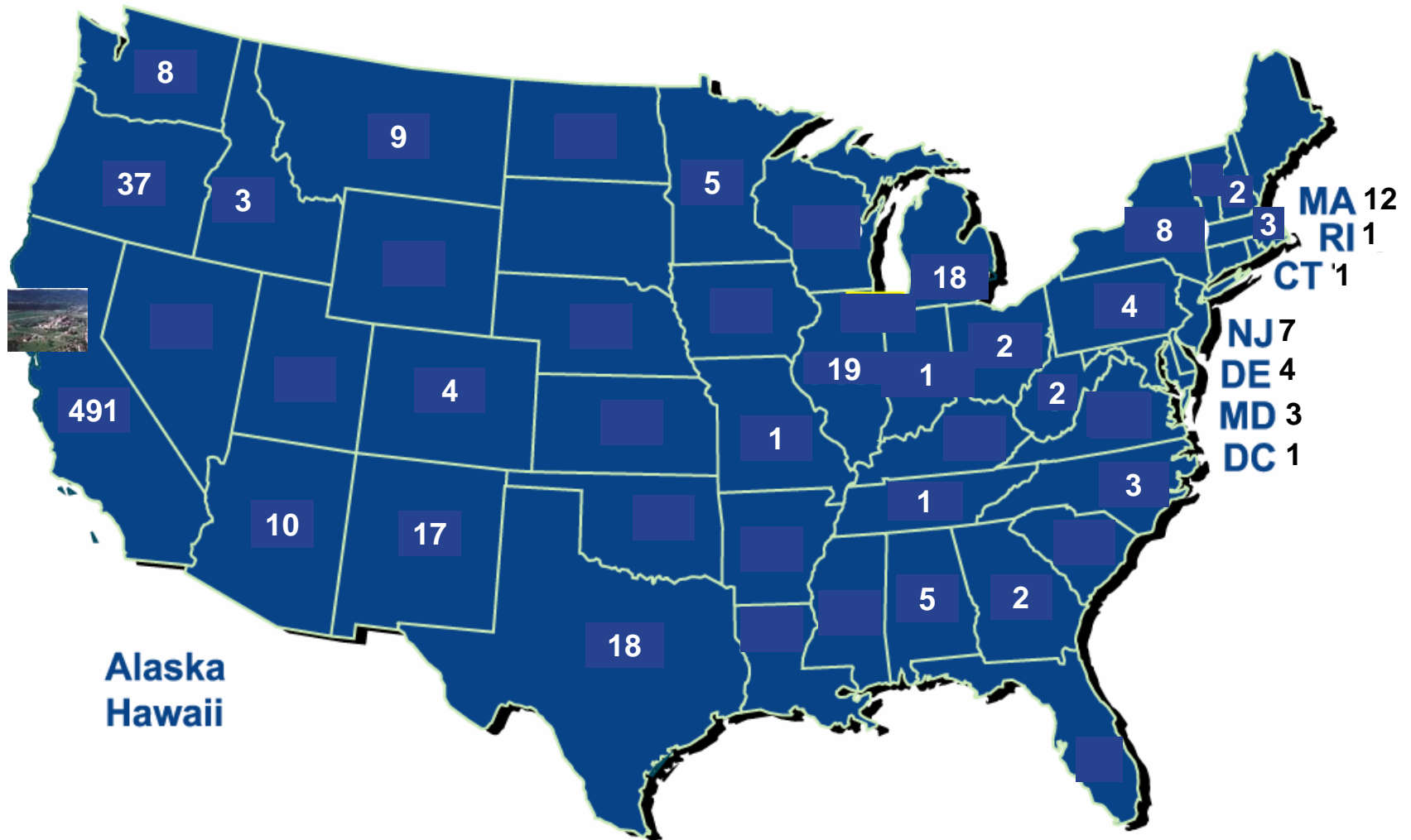
U. S. APS Unique Users, by State



U. S. NSLS Unique Users, by State



U. S. SSRL Unique Users, by State



Sensitive Country User Institutions

Users from Home Institutions in Sensitive Countries:					45	0.69%
Country	Count	% of Total		Country	Count	% of Total
Argentina	1	0.02%		Korea, Republic Of	15	0.23%
Australia	104	1.60%		Mexico	14	0.22%
Austria	1	0.02%		Netherlands	12	0.18%
Belgium	11	0.17%		New Zealand	5	0.08%
Brazil	4	0.06%		Northern Ireland	1	0.02%
Canada	236	3.62%		Norway	3	0.05%
China, Peoples Republic Of	4	0.06%		Poland	2	0.03%
Czechoslovakia (Obsolete)	1	0.02%		Puerto Rico	1	0.02%
Denmark	18	0.28%		Russian Federation	1	0.02%
Egypt	2	0.03%		Scotland	2	0.03%
Finland	3	0.05%		Singapore	7	0.11%
France	60	0.92%		South Africa	2	0.03%
Georgia	2	0.03%		Spain	7	0.11%
Germany	120	1.84%		Sweden	38	0.58%
Hungary	2	0.03%		Switzerland	36	0.55%
India	1	0.02%		Taiwan, Republic Of China	12	0.18%
Ireland	3	0.05%		Thailand	2	0.03%
Israel	25	0.38%		Tunisia	1	0.02%
Italy	27	0.41%		Turkey	1	0.02%
Japan	48	0.74%		United Kingdom	68	1.04%
				United States	5608	86.13%

Categories of US Home Institutions

Type of Institution	# of Users	% of Users	# of Unique Institutions	% of Institution Type
Industry	445	8.0%	156	29.7%
Government	1446	25.9%	41	7.8%
Academia	3583	64.2%	296	56.4%
Private	106	1.9%	32	6.1%
Other		0.0%		0.0%
Totals:	5580		525	

Citizens from non-US and sensitive Countries with Home Institutions in the US

Citizenship	Academia	Government	Industry	Private	# of Users
Non-US Citizens:	1520	403	105	49	2077
Sensitive Country Citizens:	742	151	36	20	949
Sensitive Country Citizens, %:	48.8%	37.5%	34.3%	40.8%	45.7%

Conclusions/Inferences

- **About 15% of users work at more than one SR facility.**
- **The number of unique users across all SR facilities is slightly more than 6500.**
- **Of these, slightly more than 50% are non-US citizens.**
- **Of the non-US citizens, ~31% are from sensitive countries (~16% of total unique users).**

Conclusions/Inferences, cnt'd

- **~85% of users come from institutions in the US**
- **<1% of users actually work from sensitive country institutions**
- **Geography influences science- to some extent.**